Attorney's Docket No.: 05770-082001 / ASC-38

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Swarn S. Kalsi

Art Unit

: 2834

Serial No.: 09/371,692

Examiner: G. Perez

Filed Title

: August 10, 1999

: SUPERCONDUCTING ELECTRIC MOTOR

Assistant Commissioner for Patents

Washington, D.C. 20231

RESPONSE AND AMENDMENT

In response to the office action mailed December 10, 1999, please amend the application as follows:

In the Claims:

Please amend claims 7 and 17 as follows:

- 7. (Amended) The superconducting electric motor of claim 6 further comprising a cryostat positioned between the thermal isolation vacuum region and the induction structure [electromagnetic shield member].
- 17. (Amended) A superconducting electric motor comprising:

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a rotor assembly including at least one superconducting winding comprising a high temperature superconductor, the superconducting winding, in operation, generating flux within the rotor assembly, the rotor assembly [and stator assembly] configured to operate

in a synchronous mode of operation at temperatures wherein the superconducting winding exhibits superconducting characteristics and

in an induction mode at temperatures wherein the superconducting winding exhibits non-superconducting characteristics;

a cryostat surrounding the rotor assembly to maintain the at least one superconducting winding at cryogenic temperatures; and

induction structure, which during operation, carries current at levels sufficient to allow the steady-state induction mode of operation of the superconducting electric motor, the induction structure including:

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CERTIFICATE OF MAILING BY FIRST CLASS MAIL I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Assistant Commissioner for Vashington, D.C. 20231.

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